

Title (en)
ANGULAR-DIVERSITY RADIATING SYSTEM FOR TROPOSPHERIC-SCATTER RADIO LINKS

Publication
EP 0261699 A3 19891108 (EN)

Application
EP 87201253 A 19870701

Priority
IT 2177786 A 19860922

Abstract (en)
[origin: EP0261699A2] An angular-diversity radiating system is described for tropospheric-scatter radio links which comprises a paraboloid and two antenna horns (1, 2) in which the distance (D) between the antenna horns (1, 2) is adjustable in order to vary the diversity angle depending on the transmissive characteristics of the troposphere of the link involved and hence to always have the optimal diversity angle under all link conditions. The radiating systems also has four wave guides (P, S, T, Q) connected to the two antenna horns (1, 2) permitting the use of single and double polarization for both the antenna horns (1, 2) and the use of both the antenna horns, or optionally only one, for receiving and transmitting the signals, so that the radiating system is very flexible.

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IPC 8 full level
H01Q 3/18 (2006.01); **H01Q 19/17** (2006.01); **H01Q 25/00** (2006.01)

CPC (source: EP US)
H01Q 3/18 (2013.01 - EP US); **H01Q 19/17** (2013.01 - EP US); **H01Q 25/007** (2013.01 - EP US)

Citation (search report)
• [EL] EP 0253425 A2 19880120 - GTE TELECOM SPA [IT]
• [X] US 3988736 A 19761026 - SMITH JR LEWIS V, et al
• [X] DE 2752680 A1 19790531 - SIEMENS AG
• [X] THE MARCONI REVIEW, vol. 41, no. 211, 1978, pages 199-217; M.W. GOUGH et al.: "Troposcatter angle diversity in practice"

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DE4009322A1; FR2716049A1

Designated contracting state (EPC)
AT CH DE ES FR GB GR IT LI NL SE

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EP 0261699 A2 19880330; **EP 0261699 A3 19891108**; **EP 0261699 B1 19930331**; AT E87772 T1 19930415; AU 599397 B2 19900719; AU 7560787 A 19880324; DE 3785122 D1 19930506; DE 3785122 T2 19930902; ES 2041675 T3 19931201; IT 1200024 B 19890105; IT 8621777 A0 19860922; US 4794400 A 19881227

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